SONY

3-866-408-11(1)

Mini Hi-Fi Component System

Operating Instructions

Owner's Record

The model and serial numbers are located on the rear panel. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No._____ Serial No._____

COMPACT disc DIGITAL AUDIO

MHC-MC3AV
MHC-MC1

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

NOTICE FOR THE CUSTOMERS IN THE U.S.A.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

NOTICE FOR THE CUSTOMERS IN CANADA

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

MHC-MC3AV
This stereo system is equipped with the Dolby B-type noise reduction system and Dolby Pro Logic Surround decoder*.
MHC-MC1
This stereo system is equipped with the Dolby B-type noise reduction system*.

* Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol ⧈ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

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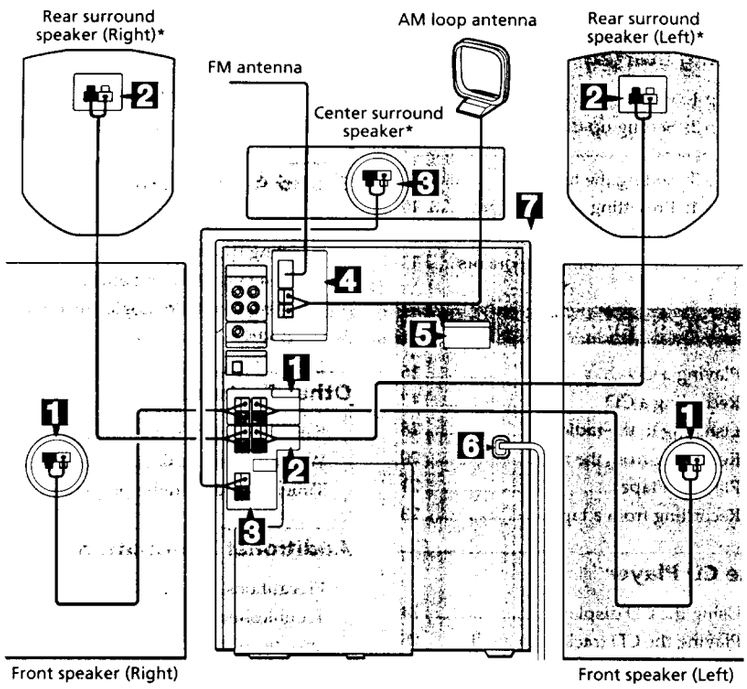
* MHC-MC3AV only

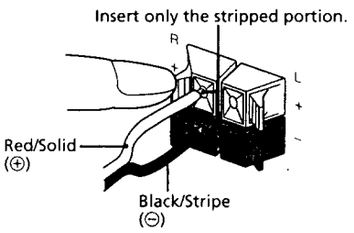
Step 1: Hooking up the system



* MHC-MC3AV only

1 Connect the front speakers.

Connect the speaker cords to the SPEAKER jacks as shown below.

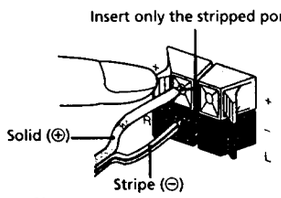


Notes

- Keep the speaker cords away from the antennas to prevent noise.
- The type of speakers supplied vary according to the model you purchased (see "Specifications" on page 51).

2 (MHC-MC3AV only)
Connect the rear surround speakers.

Connect the speaker cords from the rear surround speakers to the appropriate REAR SPEAKER jacks as shown below.

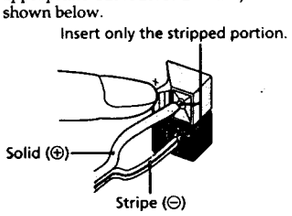


Notes

- Keep the speaker cords away from the antennas to prevent noise.
- Do not place the rear surround speakers on top of a TV. This may cause distortion of the colors in the TV screen.
- Be sure to connect both left and right rear surround speakers. Otherwise, the sound will not be heard.

3 (MHC-MC3AV only)
Connect the center surround speaker.

Connect the speaker cords from the center surround speaker to the appropriate CENTER SPEAKER jacks as shown below.

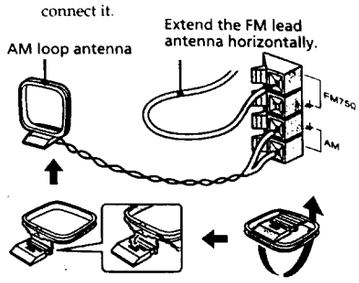


Note

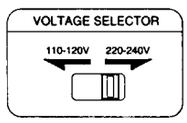
Keep the speaker cords away from the antennas to prevent noise.

4 Connect the FM/AM antennas.

Set up the AM loop antenna, then connect it.



5 For models with a voltage selector, set VOLTAGE SELECTOR to position of your local power line voltage.



6 Connect the power cord to a wall outlet.

Demo mode appears in the display.

7 Deactivate the demo mode by pressing DISPLAY/DEMO when the power is turned off.

The demo mode is also deactivated when you set the time.

Tip

You can reinforce the bass sound by connecting an optional super woofer to the super woofer connector.

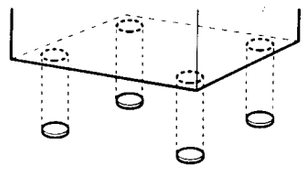
continued

Step 1: Hooking up the system (continued)

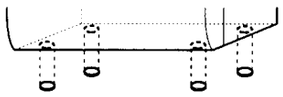
To attach the speaker pads

Attach the supplied speaker pads to the bottom of the speakers to stabilize the speakers and prevent them from slipping.

Front speaker

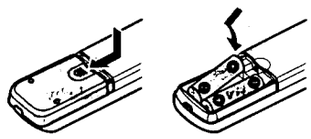


Center surround speaker (MHC-MC3AV only)

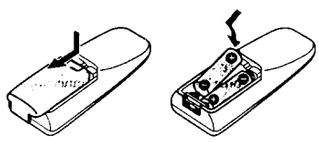


Inserting two size AA (R6) batteries into the remote

(for MHC-MC3AV)



(for MHC-MC1)



Tip

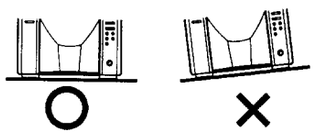
With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.

Note on placement

Be sure to place this unit on a horizontal place. If the unit is slanted, it may cause malfunction or damage to the system.



Step 2: Setting up the surround speakers

For MHC-MC3AV

Connecting the supplied rear and center surround speakers enables you to fully enjoy Dolby Pro Logic Surround sound. Dolby Pro Logic Surround is a decoding system standardized in TV programs and movies. Dolby Pro Logic Surround improves the sound image by using four separate channels. These channels manipulate the sound to be heard and enhance the action as if it happens on the screen.

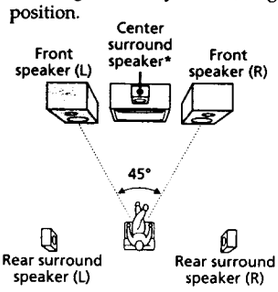
For MHC-MC1

In addition to the front speakers, connecting the optional rear speakers provides reverberation and reflective sound that emphasize the sound from the front speakers.

Positioning the speakers

Before you connect them, determine the best location for your speakers.

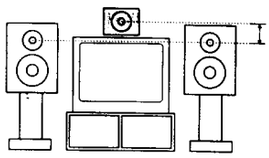
1 Place the front speakers at an angle of 45 degrees from your listening position.



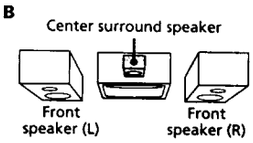
* For MHC-MC3AV only

2 (For MHC-MC3AV only)
Place the center surround speaker at about the same height as the front speakers (**A**). Align the center surround speaker with the front speakers or place it slightly back from the position of the front speakers (**B**).

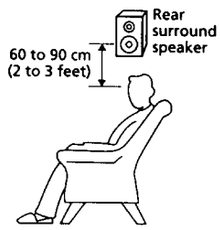
A



B



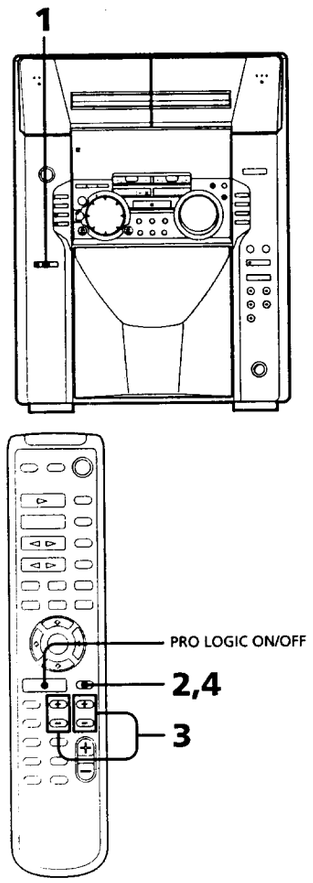
3 Place the rear surround speakers facing each other at about 60 to 90 cm (2 to 3 feet) above your listening position.



continued

Adjusting the speaker volume (For MHC-MC3AV only)

To enjoy Dolby Pro Logic Surround sound, turn the Dolby Pro Logic mode on, then adjust the volume of each speaker using the test tone that the system provides.



1 Press PRO LOGIC (or PRO LOGIC ON/OFF on the remote).
"PRO LOGIC ON" appears.

2 Press T.TONE ON/OFF on the remote.
The test tone is heard from the speakers in the following order. Adjust the volume of the test tone.
Front (left) → Center → Front (right)
↑ Rear ←

3 From your listening position, press CENTER LEVEL (+/–) and REAR LEVEL (+/–) on the remote to adjust the volume.
The volume levels from each speaker must become the same.

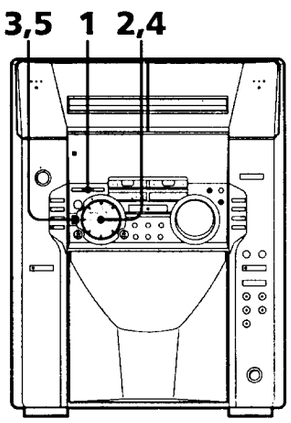
4 Press T.TONE ON/OFF when you are done adjusting.
The test tone turns off.

Tip
If you turn VOLUME (or press VOLUME +/– on the remote), all the speaker volumes change.

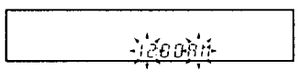
Note
The test tone feature works only for Dolby Pro Logic Surround sound.

Step 3: Setting the time

You must set the time before using the timer functions.

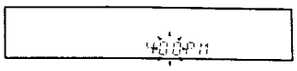


1 Press CLOCK TIMER SET.
The hour indication flashes.



2 Turn SELECTOR to set the hour.

3 Press ENTER
The minute indication flashes.



4 Turn SELECTOR to set the minute.

5 Press ENTER.
The clock starts working.

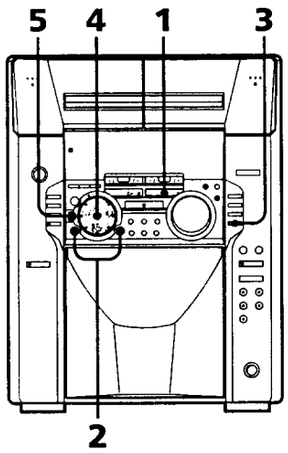
Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode. If you want to display the demo mode, press DISPLAY/DEMO when the power is off.
- The above explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:
  1 Press CLOCK TIMER SET.
  2 Turn SELECTOR to select "SET CLOCK".
  3 Press ENTER.
  4 Do steps 2 through 5 above.

Step 4: Presetting radio stations

You can preset the following number of stations:

- 20 for FM, 10 for AM.

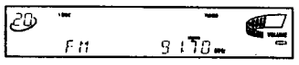


1 Press TUNER/BAND repeatedly until the band you want appears in the display.

Every time you press this button, the band changes as follows:
FM ⟷ AM

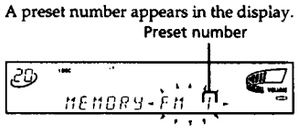
2 Press and hold + or – until the frequency indication starts to change, then release it.

Scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for a stereo program) appear.



3 Press TUNER MEMORY.

A preset number appears in the display.



4 Turn SELECTOR to select the preset number you want.

5 Press ENTER.

The station is stored.

6 Repeat steps 1 to 5 to store additional stations.

To tune in a station with a weak signal

Press + or – repeatedly in step 2 to tune in the station manually.

To change the preset number

Start over from step 1.

To change the AM tuning interval

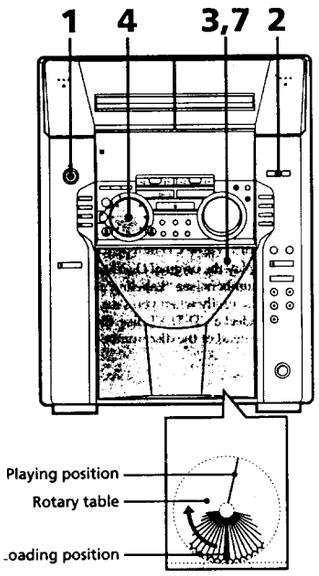
The AM tuning interval is factory set to 9 kHz (10 kHz in some areas). To change the AM tuning interval, tune in any AM station first, then turn off the power. While holding down the ENTER button, turn the power back on. When you change the interval, AM preset stations will be erased. To reset the interval, repeat the same procedure.

Tip

The preset stations are retained for half a day even if you disconnect the power cord or if a power failure occurs.

Inserting CDs

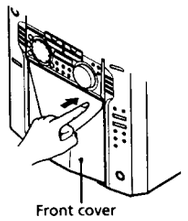
You can insert up to 51 discs into this unit. We recommend you use the PLUS ONE slot for CDs you will be inserting and removing frequently (see page 28).



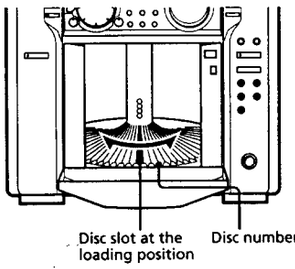
1 Press I/⏻ to turn on the system.

2 Press FUNCTION repeatedly until "CD" appears.

3 Open the front cover by pushing the right edge of the cover.

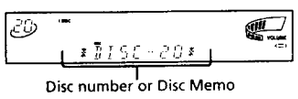


4 Turn SELECTOR until you find the disc slot where you want to insert a disc, while checking the disc number (written beside every slot and also indicated in the display).



The disc number* or Disc Memo (see page 32 for details) at the loading position appears in the display. As you turn SELECTOR, the disc number or Disc Memo changes.

* If you have already inserted discs, the disc number at the playing position appears. When you turn SELECTOR, the displayed disc number changes to the one at the loading position.

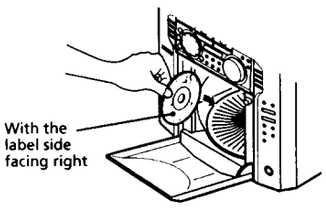


continued

5 Insert a disc with the label side facing right.

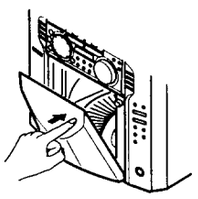
Notes

- Make sure you have inserted the disc into each slot at a right angle to the rotary table. If the disc is not put in straight, it may damage the unit or the disc.
- Make sure the rotary table comes to a complete stop before inserting or removing discs.



6 Repeat steps 4 and 5 to insert additional discs.

7 Close the front cover by pushing the right edge of the cover until it clicks.



The rotary table turns and the disc slot at the loading position is set to the playing position.

Always close the front cover except when you insert or remove discs.

Removing CDs

After following steps 1 to 3 of "Inserting CDs" on page 11, remove the discs. Then close the front cover.

Notes

- Do not insert an empty 8 cm (3-inch) CD adaptor. It may damage the unit.
- Do not attach anything such as seals or sleeves to CDs. It may damage the unit or the disc.
- If you drop a disc into the unit and the CD won't go into the slot correctly, consult your nearest Sony dealer.
- When transporting the unit, remove all discs from the unit.
- If you want to remove the disc played, press ENTER after opening the front cover. The disc comes to the loading position. Remove the disc after the rotary table comes to a complete stop.

Tips

- To play the disc you want independently, see "Playing your favorite CD independently".
- You can display the original Disc Memos instead of the disc numbers (see "Labeling a CD") to locate the disc easily when you start playing. When you select a CD-TEXT disc, the disc title is displayed instead of the disc number.

Connecting optional components

To enhance your system, you can connect optional components. Refer to the instructions of each component.

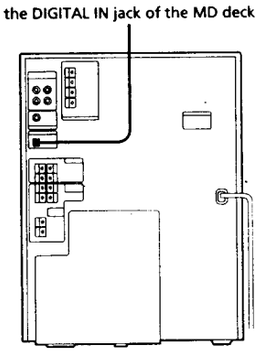
Connecting audio components

Select one of the following two connections, depending on the equipment to be connected and method of connecting.

Connecting an MD deck for digital recording

You can record from CD into the MD deck digitally by connecting an optical cable.

To the DIGITAL IN jack of the MD deck

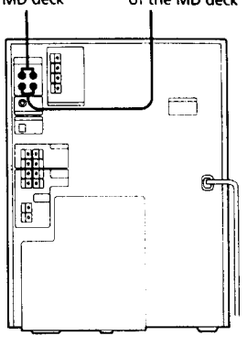


Connecting an MD deck for analog recording

Make sure to match the color of the plugs and the connectors. To listen to the sound of the connected MD deck, press FUNCTION repeatedly until "MD" appears.

To the audio output of the MD deck

To the audio input of the MD deck



Note

If you cannot select "MD" even when you have pressed FUNCTION, press I/⏻ while holding down FUNCTION when the power is turned off. "VIDEO" will be switched to "MD". To return to "VIDEO", do the same procedure.

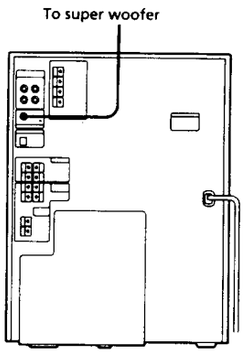
Tip (MHC-MC3AV only)

When you connect a Sony MD deck, you can use the MD ▷, ❚❚, and ■ buttons on this system's remote to perform play, pause, and stop operations.

continued

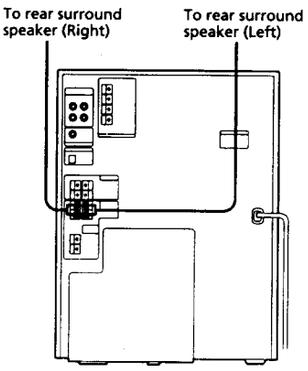
Connecting a super woofer speaker

You can connect an optional super woofer speaker.



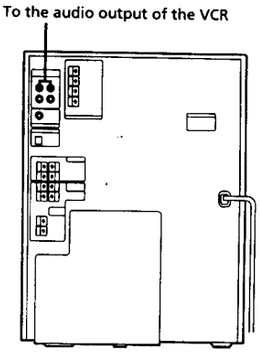
Connecting rear surround speakers (For MHC-MC1 only)

You can connect optional rear surround speakers. See page 7 for details on positioning the speakers.



Connecting a VCR

Make sure to match the color of the plugs and the connectors. To listen to the sound of the connected VCR, press I/⏻ while holding down FUNCTION when the power is turned off. This switches "MD" to "VIDEO". Once you enable the "VIDEO" function, just press FUNCTION repeatedly until "VIDEO" appears.



Note

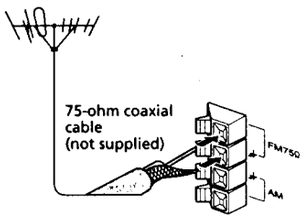
If the sound is distorted when selecting "VIDEO", or you want to switch back to "MD", repeat the operation described above.

Connecting external antennas

Connect the external antenna to improve the reception.

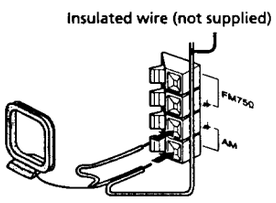
FM antenna

Connect the optional FM external antenna. You can also use the TV antenna instead.



AM antenna

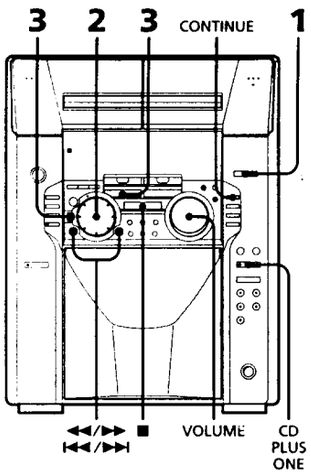
Connect a 6- to 15- meter (20- to 50- foot) insulated wire to the AM antenna terminal. Leave the supplied AM loop antenna connected.



Playing a CD

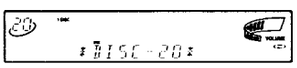
— Normal play

You can play up to 51 CDs continuously.



1 Press FUNCTION repeatedly until "CD" appears.

2 Turn SELECTOR until the desired disc number or Disc Memo (see page 32) appears.



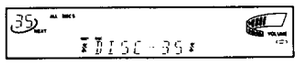
3 Press ENTER or CD ▷ II (or CD ▷ on the remote).

The selected disc is set to the playing position, and starts playing.

To	You need to
Stop play	Press ■.
Pause	Press CD ▷ II (II on the remote).
Resume playing after pause	Press CD ▷ II (II on the remote).
Select a CD	Turn SELECTOR clockwise (or press ◆ on the remote) or counterclockwise (or press ◆ on the remote) and release it when you reach the desired CD.
Advance or return 10 CDs at a time	Press ◆ on the remote (to move 10 CDs ahead) or ◆ (to move 10 CDs back).
Select a track	During play or pause, press ▶▶I repeatedly to go forward or I◀◀ repeatedly to go back until you reach the desired track.
Find a point of a track	During play, press and hold down ▶▶ to go forward or ◀◀ to go back and release it at the desired point.
Play only the CD you have selected	Press CONTINUE repeatedly until "1 DISC" appears.
Play all CDs	Press CONTINUE repeatedly until "ALL DISCS" appears.
Adjust the volume	Turn VOLUME (or press VOLUME (VOL) +/– on the remote).
Stop playing and remove the disc	Open the front cover, then press ENTER. The PLUS ONE slot comes out automatically when the front cover is opened while the CD PLUS ONE indicator is lit up.

To specify the next CD to play

While playing a disc, turn SELECTOR until the desired disc number (or Disc Memo) and "NEXT" appear. To skip to the next disc right away, press ENTER.



To cancel the specified disc, press CONTINUE twice so that "NEXT" disappears.

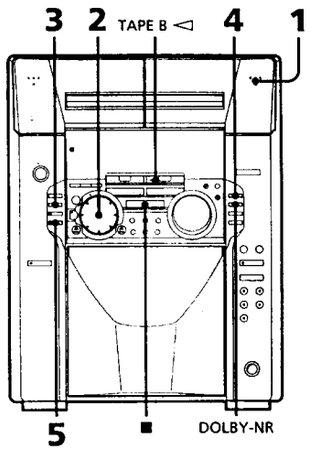
Tips

- Pressing CD ▷ II when the power is off automatically turns the power on and starts CD playback if there is a CD in the slot (One Touch Play).
- You can switch from another source to the CD player and start playing a CD just by pressing CD ▷ II (Automatic Source Selection).
- If there is no CD in the slot, "–NO DISC–" appears.

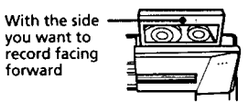
Recording a CD

— CD Synchro Recording

The CD SYNCHRO button lets you record from a CD to a tape easily. You can use TYPE I (normal) or TYPE II (CrO_2) tapes. The recording level is adjusted automatically.

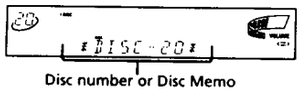


1 Press ⏏ and insert a blank tape into deck B.



continued

2 Turn SELECTOR until the disc number or Disc Memo (see page 32) appears.



Disc number or Disc Memo

3 Press CD SYNCHRO.
Deck B stands by for recording and the CD stands by for playback. The TAPE B ▷ indicator (for front side) lights up.

4 Press DIRECTION repeatedly to select "⇄" to record on one side. Select "↻" (or "RELAY") to record on both sides.

5 Press ❚❚ PAUSE.
Recording starts.

To stop recording

Press ■.

Tips

- If you want to record from the reverse side, press TAPE B ◁ to light its indicator after pressing CD SYNCHRO.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY-NR so that "DOLBY NR" appears after pressing CD SYNCHRO.

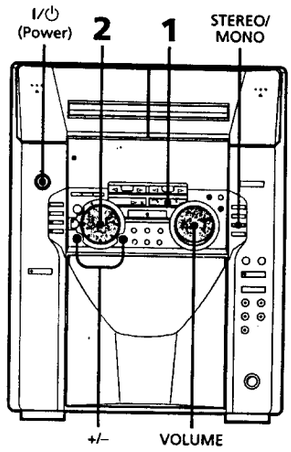
Note

You cannot listen to other sources while recording.

Listening to the radio

— Preset Tuning

Preset radio stations in the system's memory first (see "Step 4: Presetting radio stations").



1 Press TUNER/BAND repeatedly until the band you want appears in the display.

Every time you press the button, the band changes as follows:

FM ⟷ AM

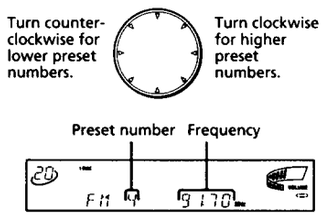
2 Turn SELECTOR to tune in the desired preset station.

For MHC-MC3AV

You can also use TUNING + or – on the remote to tune in preset stations.

For MHC-MC1

You can also use ⏮ or ⏭ on the remote to tune in preset stations.



To	Do this
Turn off the radio	Press I/⏻.
Adjust the volume	Turn VOLUME (or press VOLUME (VOL) +/– on the remote).

To listen to non-preset radio stations (front panel only)

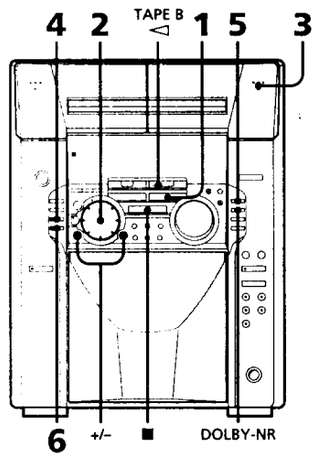
Use manual or automatic tuning in step 2.
For manual tuning, press + or – repeatedly.
For automatic tuning, press and hold + or –.

Tips

- Pressing TUNER/BAND when the power is off automatically turns the power on and tunes to the last received station (One Touch Play).
- You can switch from another source to the radio just by pressing TUNER/BAND (Automatic Source Selection).
- When an FM program is noisy, press STEREO/MONO so that "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.
- To improve broadcast reception, reorient the supplied antennas.

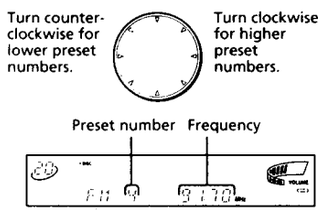
Recording from the radio

You can record the radio program on a tape by calling up a preset station. You can use TYPE I (normal) or TYPE II (CrO_2) tapes. The recording level is automatically adjusted.

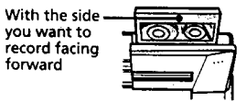


1 Press TUNER/BAND to select the band you want.

2 Turn SELECTOR to tune in a preset station.



3 Press ⏏ and insert a blank tape into deck B.



4 Press ● REC.
Deck B stands by for recording.

5 Press DIRECTION repeatedly to select "⇄" to record on one side. Select "↻" (or "RELAY") to record on both sides.

6 Press ❚❚ PAUSE.
Recording starts.

To stop recording

Press ■.

Tips

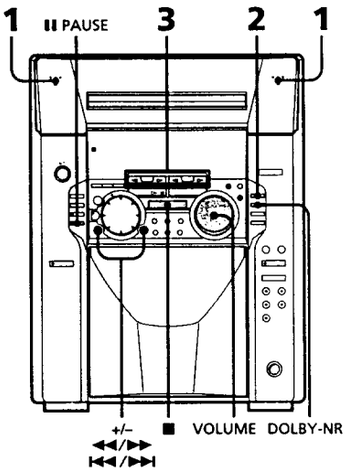
- If you want to record from the reverse side, press TAPE B ◁ to light its indicator after pressing ● REC.
- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- To record non-preset stations, use + and – in step 2 to tune in the desired station manually.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY-NR so that "DOLBY NR" appears after pressing ● REC.
- If noise is heard while recording from the radio, move the respective antenna to reduce the noise.

Playing a tape

You can use any type of tape, TYPE I (normal), TYPE II (CrO_2) or TYPE IV (metal), since the system automatically detects the tape type. You can also use the AMS functions to quickly search for songs you want to hear.

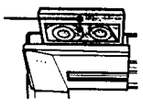
For MHC-MC3AV, press TAPE A ◁ ▷ or TAPE B ◁ ▷ on the remote to select either deck A or B.

For MHC-MC1, press TAPE A ► or TAPE B ► on the remote to select either deck A or B.



1 Press ⏏ and insert a recorded tape in deck A or B.

With the side you want to play facing forward



2 Press DIRECTION repeatedly to select "⇄" to play one side. Select "(⇄)"* to play both sides.

To play both decks in succession, select "RELAY" (relay play)**.

3 Press TAPE A (or TAPE B) ▷.

Press TAPE A (or TAPE B) ◁ to play the reverse side. The tape starts playing.

For MHC-MC3AV

You can also use TAPE A (or TAPE B) ◁ ▷ on the remote. Press TAPE A (or TAPE B) ◁ ▷ again to play the reverse side.

For MHC-MC1

You can also use TAPE A (or TAPE B) ► on the remote. Press TAPE A (or TAPE B) ► again to play the reverse side.

* The tape stops automatically after repeating the sequence five times.

** Relay play always follows the following sequence:
Deck A (front side), Deck A (reverse side), Deck B (front side), Deck B (reverse side).

continued

To	Do this
Stop play	Press ■.
Pause	Press ❚❚ PAUSE (❚❚ on the remote). Press again to resume play.
Fast-forward	Press ▶▶ for the front side or ◀◀ for the reverse side.
Rewind	Press ◀◀ for the front side or ▶▶ for the reverse side.
Remove the tape	Press ⏏.
Adjust the volume	Turn VOLUME (or press VOLUME (VOL) +/– on the remote).

Tips

- Pressing TAPE A (or TAPE B) ▷ or ◁ when the power is off automatically turns the power on and starts tape playback if there is a tape in the deck (One Touch Play).
- You can switch from another source to the tape just by pressing TAPE A (or TAPE B) ▷ or ◁ (Automatic Source Selection).
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY-NR so that "DOLBY NR" appears.

Searching for the beginning of a track (AMS*)

During playback, press ⏮ or ⏭ pointing in the same direction as the ◁ or ▷ indicator to go forward. Press the opposite direction to go back.

The search direction, + (forward) or – (back), and number of songs being skipped (1–9) appear in the display.

Example: searching forward 2 songs

* AMS (Automatic Music Sensor)

Note

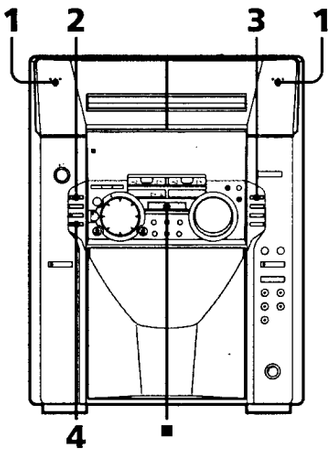
The AMS function may not operate correctly under the following circumstances:

- When the unrecorded space between songs is less than 4 seconds long.
- When completely different information is recorded on the left and right channels.
- When there are continuous sections of extremely low level or low frequency sound (like those of a baritone sax).
- When the unit is placed near a television. (In this case, we recommend moving the unit farther away from the television or turning off the television.)

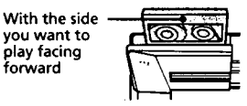
Recording from a tape

— High-speed Dubbing

You can use TYPE I (normal) or TYPE II (CrO_2) tapes. The recording level is automatically adjusted.



1 Press ⏏ and insert a recorded tape in deck A and a blank tape in deck B.



2 Press HI-SPEED DUBBING.
Deck B stands by for recording.

3 Press DIRECTION repeatedly to select "⇄" to record on one side. Select "⇆" (or "RELAY") to record on both sides.

4 Press ❚❚ PAUSE.
Dubbing starts.

To stop dubbing

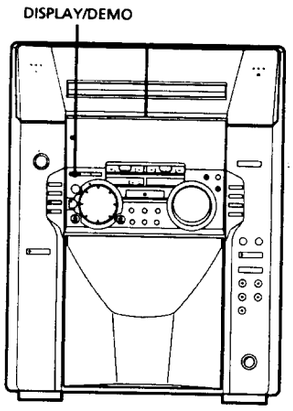
Press ■.

Tips

- When you dub on both sides, start recording from the front side. If you record from the reverse side, recording stops at the end of the reverse side.
- If you select "⇆" when the tapes you use have different lengths, the tape in each deck reverses independently. If you select "RELAY", the tapes in both decks reverse together.
- You don't have to set Dolby NR, since the tape in deck B is automatically recorded in the same state as the tape in deck A.

Using the CD display

You can check the remaining time of the current track or that of the CD.



➡ Press DISPLAY/DEMO.

Each time you press the button, the display changes as follows:

During Stop mode

→ Disc number or Disc Memo [1]
↓
Artist name [2]
↓
TOC display [3]
↓
Clock display (for a few seconds)
↓
Effect name or "EFFECT ON (OFF)"
↓
Name of spectrum analyzer display pattern

During playback

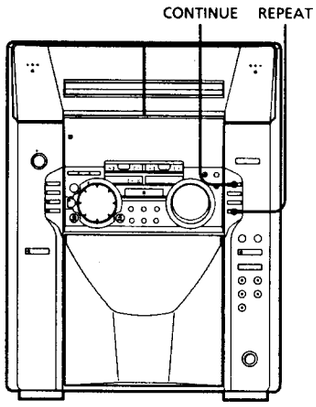
→ Playing time on the current track
↓
Track title [2]
↓
Clock display (for a few seconds)
↓
Effect name or "EFFECT ON (OFF)"
↓
Name of spectrum analyzer display pattern

[1] For labeled CD or CD with CD-TEXT.
[2] CD with CD-TEXT.
[3] TOC = Table of Contents; displays current disc number, total number of tracks on the disc, and total playing time of the disc.

Playing the CD tracks repeatedly

— Repeat Play

This function lets you repeat a single CD or all CDs in Normal play, Shuffle Play and Program Play.



➡ Press REPEAT during playback until "REPEAT" appears in the display.

Repeat Play starts. Do the following procedure to change the repeat mode.

To repeat	Press
All the tracks on the current CD	CONTINUE repeatedly until "1 DISC" appears in the display.
All the tracks on all CDs	CONTINUE repeatedly until "ALL DISCS" appears in the display.
Only one track	REPEAT repeatedly until "REPEAT 1" appears in the display while playing the track you want to repeat.

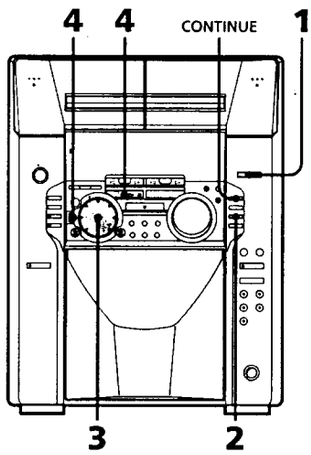
To cancel Repeat Play

Press REPEAT repeatedly so that "REPEAT OFF" appears in display.

Playing the CD tracks in random order

— Shuffle Play

You can play all the tracks on one CD or all CDs in random order.



1 Press FUNCTION repeatedly until "CD" appears in the display, then place a CD.

2 Press SHUFFLE repeatedly until "SHUFFLE" appears in the display, then select "1 DISC" or "ALL DISCS".

"ALL DISCS" shuffles all the CDs in the system. "1 DISC" shuffles only one CD.

3 When you want to specify the disc for 1 DISC Shuffle Play, turn SELECTOR until the desired disc number or Disc Memo (see page 32) appears.

4 Press ENTER or CD ▷ II.

"🔀" appears and then all the tracks pla in random order.

To cancel Shuffle Play

Press CONTINUE.

Tips

- You can start Shuffle Play by pressing SHUFFLE while playing.
- To skip a track, press ▶▶I.
- You can specify another disc during 1 DISC Shuffle Play.

  Turn SELECTOR to specify the next disc. After a the tracks on the current disc are played in random order, the next disc starts playing. To ski to the next disc right away, press ENTER while playing the current disc.

  You cannot specify the next disc to play during ALL DISCS Shuffle Play.

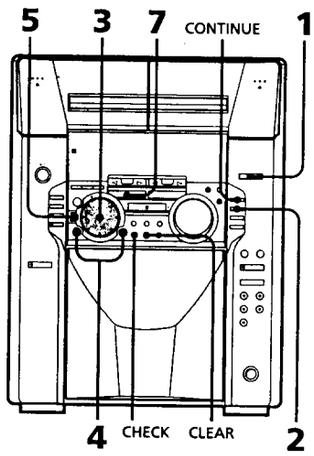
Note

Even if you press ■ or turn off the power during ALL DISCS Shuffle Play, the system remembers which discs/tracks were played and which were not. Therefore, if you want to start ALL DISCS Shuffle Play again from the beginning, be sure to repeat the procedure from step 1.

Programming the CD tracks

— Program Play

You can make a program containing up to 32 "steps", each "step" may contain either an individual track or an entire disc. The program is stored automatically.

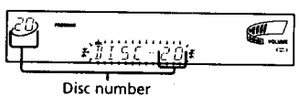


1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Press PROGRAM.

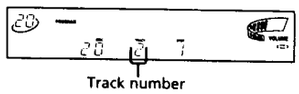
3 Turn SELECTOR until the desired disc number or Disc Memo appears.

To program the whole disc, make sure "AL" is displayed below "TRACK" and skip to step 5.



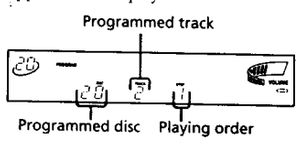
4 Press ⏮ or ⏭ until the desired track number appears.

When the disc you select has Disc Memo, it appears and then switches to the following display.



5 Press ENTER to program the track.

The programmed track and corresponding step (playing order) appear in the display.



6 Program additional discs or tracks.

To program	Repeat steps
Other discs	3 and 5
Other tracks on the same disc	4 and 5
Other tracks on other discs	3 to 5

7 Press CD ▷ II.

All the tracks play in the order you selected.

To cancel Program Play

Press CONTINUE.

Programming the CD tracks (continued)

To	You need to
Check the program	Press CHECK repeatedly. After the last track, "-END-" appears.
Clear a specific track or disc	Press CHECK until the track or disc you want appears, then press CLEAR.
Clear from the last track or disc	Press CLEAR. Each time you press the button, the last track or disc will be cleared.
Clear the entire program	Press and hold CLEAR until "CLEAR" is displayed.
Add tracks or discs to the end of the program	Follow the programming procedure.

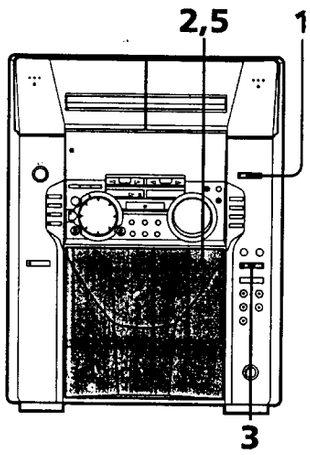
Tips

- When you press CD ▷ II, you can play the same program again.
- When you press PROGRAM during Normal or Shuffle Play, the program will be played after the current track.
- If you replace discs, the programmed disc and track numbers remain until you erase them. So, the system plays only the existing disc and track numbers. However, the disc and track numbers that are not found in the system or on the disc are deleted from the program, and the rest of the program is played in the programmed order.

Playing your favorite CD independently

— *Plus One Play*

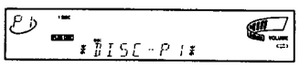
When you insert a disc into the PLUS ONE slot, you can play the disc independently from other discs. When using this function, the system is automatically set to the 1 DISC play mode.



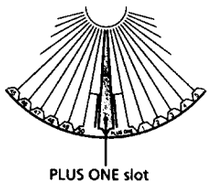
1 Press FUNCTION repeatedly until "CD" appears in the display.

2 Open the front cover.

3 Press CD PLUS ONE.
The CD PLUS ONE indicator lights up and "PLUS ONE" appears.



The PLUS ONE slot comes to the loading position.

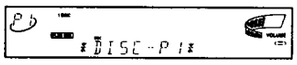


PLUS ONE slot

4 Insert a disc into the PLUS ONE slot.

5 Close the front cover.

The system starts playing the disc in the PLUS ONE slot.



To cancel Plus One Play

Press CD PLUS ONE. The CD PLUS ONE indicator goes off. The disc number in the display changes to 51 and you can play the disc as the 51st disc.

Tips

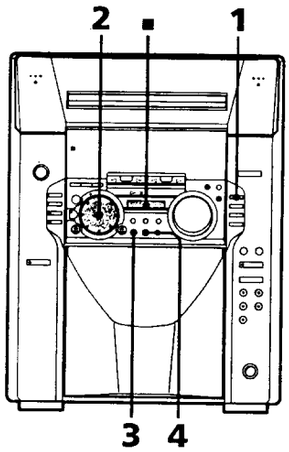
- To play a disc already inserted into the PLUS ONE slot, press CD PLUS ONE while the front cover is closed.
- You can start Shuffle Play during Plus One Play by pressing SHUFFLE.

Notes

- Activating Plus One Play during Program Play automatically switches the system to Normal Play.
- Plus One Play will be canceled if;
  - — you turn SELECTOR or press buttons to select other disc.
  - — you press PROGRAM, SCAN, SEARCH, or GROUP ENTRY 1-5.
- The PLUS ONE slot comes to the loading position automatically if you open the front cover during Plus One Play. Do not put your hand inside the compartment nor change the disc before the rotary table comes to a complete stop. If you do, you may injure your hand or damage the disc.

Storing specific tracks (Delete bank)

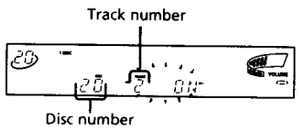
You can delete unwanted tracks and store only the tracks you want. When you select the disc containing a Delete Bank, you can play only the remaining tracks.



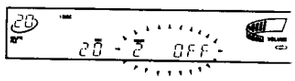
1 Press CONTINUE repeatedly to select "1 DISC" or "ALL DISCS" before you start playing.

2 Turn SELECTOR to select the disc.

3 Press CHECK repeatedly until the track you want to delete appears in the display.



4 Press CLEAR to delete the track. "OFF" appears next to the track numbe



If you want to restore the track, press CLEAR again so that "ON" appears nex to the track number.

5 Repeat step 3 and 4 to delete additional tracks.

To recover all the tracks you have deleted

1 Press ■ to stop playback.
2 Hold down CLEAR until "ALL ON" appears in the display.

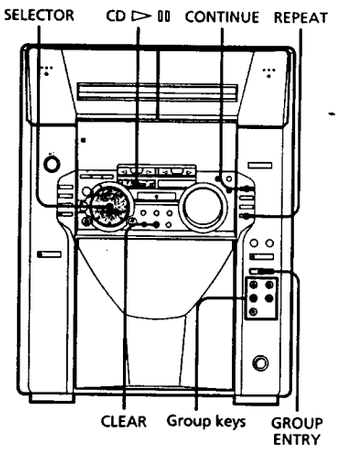
Tip

The deleted tracks are skipped even in Shuffle or Program Play (when the whole disc containing a Delete Bank is programmed as one step).

Grouping your favorite CDs

— Group File

You can file the discs into different groups and then play the grouped discs. Discs can be filed into only one group at a time. No more than 51 discs (total) can be filed.



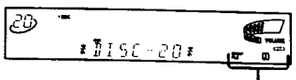
Filing a disc

1 Press REPEAT if "REPEAT" is displayed and/or CONTINUE if "PROGRAM" is displayed.

2 Turn SELECTOR to select a disc.

3 Press GROUP ENTRY.
"SEL G1-G5" appears in the display.

4 Press a group key to file the disc into the respective group.
"GROUP FILE" appears momentarily and the respective group file number lights up. (If the same disc was previously filed into a different group, the new group file number replaces the previous one.)



Group file number
(When disc assigned to group 3)

5 Repeat steps 2 to 4 to file additional discs.

Playing a group

1 Press the group key corresponding to the group you want to play.
The indicator on the group key lights up.

2 Press CD ▷ II to start playing the discs in the selected group.

To switch to another disc in the same group

Turn SELECTOR.

To cancel group playback

Press the corresponding group key again to turn off its indicator. "GROUP OFF" appears momentarily in the display and playback continues.

Tips

- When a CD is filed in a group, "GROUP FILE" and respective group number appear in the display whenever the CD is selected.
- To enter a name for a group, select the corresponding group number in step 3 of "Labeling a CD" (on page 32) and perform the subsequent operations to enter the name you want.

To delete a disc from a group

Do steps 2 and 3 of "Filing a disc", then press CLEAR. "GROUP ERASE" appears momentarily and the group file number goes off.

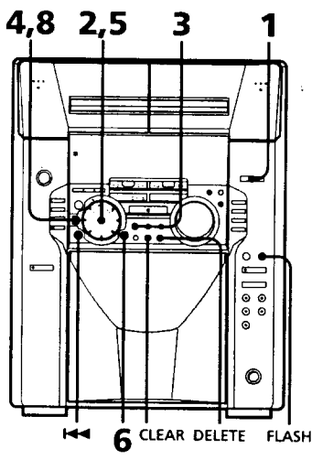
To delete all discs from a group at once

While holding down a group key you want to delete, press CLEAR.

Labeling a CD

— Disc Memo

You can label each disc using up to 11 characters. When you select a CD-TEXT disc, the first 11 characters of the disc title are stored as a disc memo. Whenever you select the labeled CD, the label (Disc Memo) appears in the display.



1 Press FUNCTION repeatedly until "CD" appears.

2 Turn SELECTOR until the disc number you want to label appears.

When you label a disc with the front cover closed, the disc number of the disc at the playing position appears.

When you label a disc with the front cover open, the disc number at the loading position appears.

3 Press INPUT.

"DISC MEMO" flashes in the display.

To label a group (1~5) instead of the current disc, turn SELECTOR to display the corresponding group number.

4 Press ENTER.

5 Turn SELECTOR until the character you want appears.

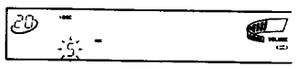
The cursor disappears and the first spac for the disc title flashes.

To select characters on the system

Turn SELECTOR to the left or right.

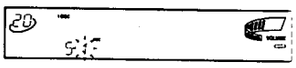
To select characters on the remote

Press ↑ or ↓ until the type of character you want appears, then press ← or → to select the character you want.



6 Press ▶▶I to enter the character.

The cursor shifts to the right and waits for input of the next character.



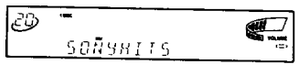
7 Repeat steps 5 and 6 to input additional characters.

If you make a mistake

Press I◀◀ or ▶▶I to move the cursor to the position you want to correct, then turn SELECTOR to select the appropriate character or press DELETE to remove the character.

8 Press ENTER to complete the labelling procedure.

The Disc Memo lights up in the display.



Repeat steps 2 to 8 to label additional discs or groups.

Note

The Disc Memo stores the number of the slot in which the CD was inserted. Re-enter the Disc Memo when inserting a new CD into that slot.

To erase a Disc Memo

1 Follow steps 1 through 4 of "Labeling a CD" on page 32 to select the Disc Memo you want to erase.

2 Press CLEAR.

The Disc Memo disappears.

3 Press ENTER.

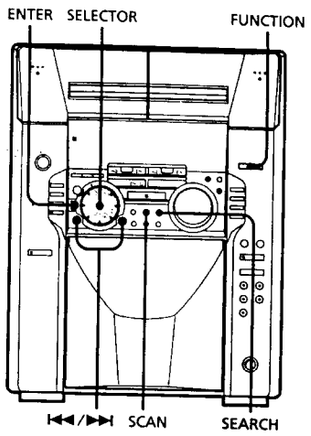
To erase all Disc Memos of all discs

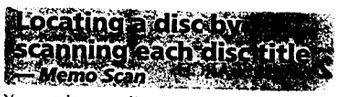
While holding down INPUT, press FLASH. "ALL ERASE" appears in the display, and all Disc Memos will be erased.

Tips

- When you replace a disc with a CD-TEXT disc, the Disc Memo of the CD-TEXT disc is restored automatically.
  The Disc Memo for the CD-TEXT disc is no longer stored (disappears) each time the CD is removed.
  Note that you cannot change the Disc Memo of a CD-TEXT disc.
- You can label discs while the front cover is open.

Locating a specific CD





You can locate a disc you want to play quickly by scanning the Disc Memos (see page 32) in the display and starting playback.

Note that you cannot use this function in ALL DISCS Shuffle Play.

1 Press FUNCTION repeatedly until "CD" appears.

2 Press SCAN.

"MEMO SCAN" appears, and the indicator on the ENTER button flashes. Disc Memos appear in order.

continued

3 Press ENTER when the Disc Memo of the disc you want to play appears.

The disc is set to the playing position, and the system starts playing.

In Program Play, the disc will be added to the end of the program.

Note

If "NO ENTRY" appears, no disc has been labeled. Try the Memo Scan function again after labeling the discs.

Locating a disc by searching a specific disc title — *Memo Search*

You can search and locate a disc you want by inputting the first character used in the Disc Memo (see page 32).

1 Press FUNCTION repeatedly until "CD" appears.

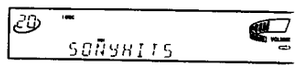
2 Press SEARCH.

"MEMO SEARCH" appears and the indicator on the ENTER button flashes.

3 Press ⏮ or ⏭ repeatedly to input the first character.

The characters appear in the following order:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9



If "A-NOT FOUND" appears in the display while inputting the first character, no disc has been labeled using the input character.

Note

When searching input characters, blanks and symbols before the first character in the Disc Memo are ignored.

4 Turn SELECTOR to find the Disc Memo you want.

As you turn SELECTOR, the Disc Memos starting with the input character appear in the display.

5 Press ENTER to select the disc.

In Program Play, the disc will be added to the end of the program.

To locate a disc on the remote

In step 4, press ◆ or ◆ on the remote until the Disc Memo you want appears.
Skip step 5.

To cancel Memo Search

Press SEARCH again.

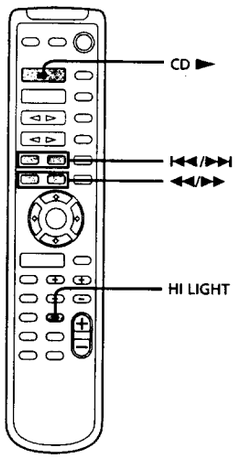
Tip

If there are no more Disc Memos starting with the character input in step 3, the system automatically changes to the next input character when you press ⏮ or ⏭.

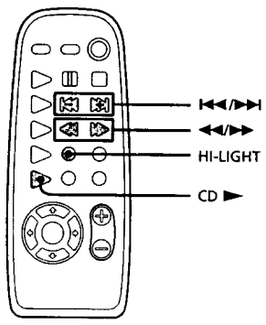
Playing highlights of the CD

Some CD-TEXT discs have a feature to play only the highlights of the discs.

For MHC-MC3AV



For MHC-MC1



➡ Press HI-LIGHT on the remote in the stop mode.

"HI-LIGHT" flashes while playing disc highlights.

Tips

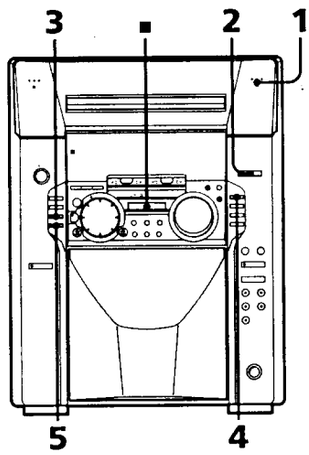
- During play of disc highlights, you can return to Normal Play by pressing CD ►, ◄◄ or ►► on the remote.
- During play of disc highlights, you can move to an earlier or later highlight song by pressing I◄◄ or ►►I on the remote.
- During play of disc highlights, you can use Repeat Play function.

  To repeat all the highlight songs, press REPEAT repeatedly until "REPEAT" appears.

  To repeat only the current highlight song, press REPEAT repeatedly until "REPEAT 1" appears.
- If you press HI-LIGHT while selecting discs without this feature, "NO HIGHLIGHT" appears.

Recording on a tape manually

You can record from CD, tape, or radio as you like. For example, you can record just the songs you want or record from the middle of the tape. The recording level is adjusted automatically.



1 Insert a blank tape into deck B.

2 Press FUNCTION repeatedly until the source you want to record (e.g., CD) appears.

3 Press ● REC.
Deck B stands by for recording. The TAPE B ▷ indicator (for front side) lights up.

4 Press DIRECTION repeatedly to select "⇄" to record on one side. Select "↻" (or "RELAY") to record on both sides.

5 Press ❚❚ PAUSE.
Recording starts.

6 Start playing the source to be recorded.

To	Press
Stop recording	■.
Pause recording	❚❚ PAUSE.

Tips

- If you want to record from the reverse side, press TAPE B ◁ to light its indicator after pressing ● REC.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY-NR so that "DOLBY NR" appears after pressing ● REC.

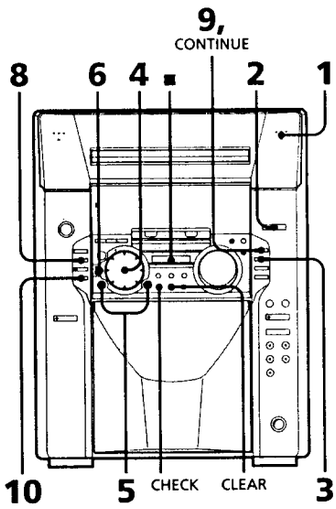
Note

Pressing FUNCTION with "TAPE B" selected starts silent recording (blank recording).

Recording a CD by specifying track order

— Program Edit

You can record tracks from all the CDs in the order you want. When programming, make sure the playing times for each side do not exceed the length of one side of the tape.



1 Insert a blank tape into deck B.

2 Press FUNCTION repeatedly until "CD" appears in the display.

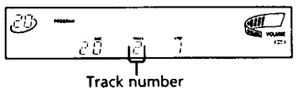
3 Press PROGRAM.

4 Turn SELECTOR until the desired disc number or Disc Memo appears.

To program the whole disc, make sure "AL" is displayed below "TRACK" and skip to step 6.

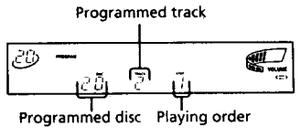
5 Press ⏮ or ⏭ until the desired track number appears.

When the disc you select has Disc Memo, it appears and then switches to the following display.



6 Press ENTER to program the track.

The programmed track and corresponding step (playing order) appear in the display.



continued

7 Program additional discs or tracks.

To program	Repeat steps
Other discs	4 and 6
Other tracks on the same disc	5 and 6
Other tracks on other discs	4 to 6

8 Press CD SYNCHRO.
Deck B stands by for recording and the CD stands by for playback. The TAPE B ▷ indicator (for front side) lights up.

9 Press DIRECTION repeatedly to select "⇄" to record on one side. Select "↻" (or "RELAY") to record on both sides.

10 Press ❚❚ PAUSE.
Recording starts.

To stop recording
Press ■.

To check the program
Press CHECK repeatedly. After the last track, "-END-" appears.

To clear a specific track or disc
Press CHECK repeatedly to display the step you want to clear, then press CLEAR.

To clear the entire program
Press and hold CLEAR.

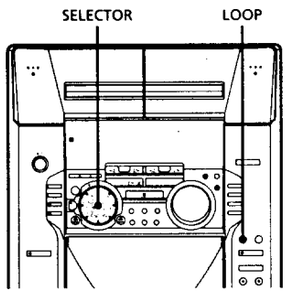
To cancel Program Play
Press CONTINUE.

Tips
- If a track is cut off during recording on both sides (because the tape ended while recording on the front side), the track will automatically be recorded from the beginning on the reverse side.
- When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY-NR so that "DOLBY NR" appears after pressing CD SYNCHRO.

Looping part of a CD

— Loop

With the Loop function, you can repeat part of a CD during playback. This lets you create original recordings.



➡ Press and hold LOOP during playback at the point you want to start the Loop function, and release it to resume Normal Play.

To adjust the loop length

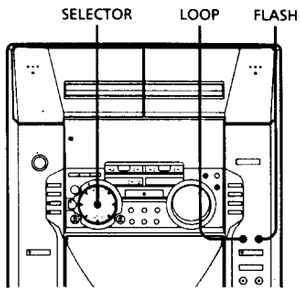
Turn SELECTOR while holding LOOP to select different loop lengths (LOOP 1~20).

Or press ↑ or ↓ while holding LOOP on the remote (for MHC-MC3AV) or press LOOP on the remote repeatedly (for MHC-MC1) to select different loop lengths.

Flashing part of a CD

— Flash

With the Flash function, you can "flash" the CD sound during playback. This lets you create original recordings.



➡ Press and hold FLASH during playback at the point you want to start the Flash function, and release it to resume Normal Play.

To adjust the flash length

Turn SELECTOR while holding FLASH (or press ↑ or ↓ while holding FLASH on the remote (MHC-MC3AV only)) to select different flash lengths (FLASH 1~20).

To use LOOP and FLASH together

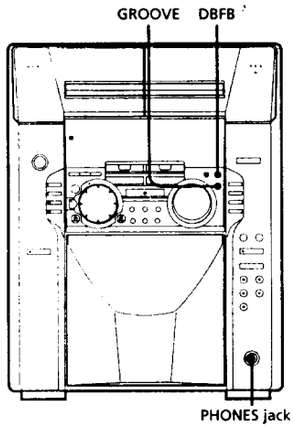
Press and hold both LOOP and FLASH at the same time.

Notes

- The loop and flash length cannot be adjusted together. Adjust the loop and flash lengths independently beforehand if necessary.
- To record the flash effect, use the analog (VIDEO/MD OUT) connections or this system's tape deck.

Adjusting the sound

You can reinforce the bass, create a more powerful sound, and listen with headphones.



To reinforce bass (DBFB)

➡ Press DBFB*.

Every time you press the button, the display changes as follows:

→ DBFB NORMAL (DBFB ▙\\\)
↓
DBFB HIGH (DBFB ▙\\\\\)
↓
DBFB OFF (off)

* DBFB = Dynamic Bass Feedback

For a powerful sound (GROOVE)

Press GROOVE. The volume switches to power mode, DBFB is automatically set to full strength, the equalizer curve changes, and the GROOVE indicator lights up. Press GROOVE again to return to the previous volume.

Notes

- With some songs, the music will sound distorted when you use the DBFB system with the sound effect if the bass is too strong. Press DBFB repeatedly to select "DBFB NORMAL" or "DBFB OFF", or cancel the sound effect (see page 41).
- Canceling GROOVE sets DBFB to "DBFB ▙\\\" and flattens the equalizer curve. To cancel the DBFB level, press DBFB repeatedly until the indication disappears.

To listen through the headphones

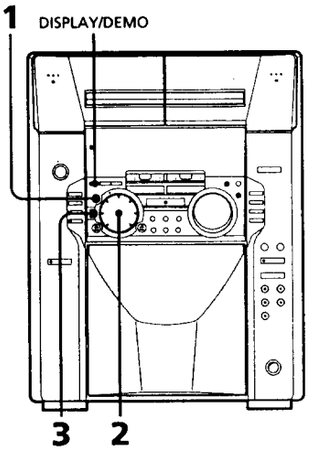
➡ Connect the headphones to PHONES jack. No sound will come from the speakers.

Note

If you have connected a super woofer, please note that sound comes from the super woofer even when the headphones are connected. Turn off the power of the super woofer when using headphones.

Selecting the audio emphasis

The audio emphasis menu lets you select the sound characteristic according to the sound you are listening to.



1 Press FILE SELECT.
The last effect selected appears in the display.

2 Turn SELECTOR to select the preset you want.
The preset name appears in the display.
See the chart "Music menu options".

3 Press ENTER.

To cancel the effect

Perform the previous operations, selecting "EFFECT OFF" in step 2.

Music menu options

"SUR" appears if you select an effect with surround effects.

Effect	For
ROCK POP JAZZ DANCE SOUL	Standard music sources
ACTION ROMANCE DRAMA SPORTS	Soundtracks and special listening situations
FLAT	Turning the effect off

To change the spectrum analyzer display

Press DISPLAY/DEMO repeatedly to select one of the displays below.

Pattern ①

Pattern ②

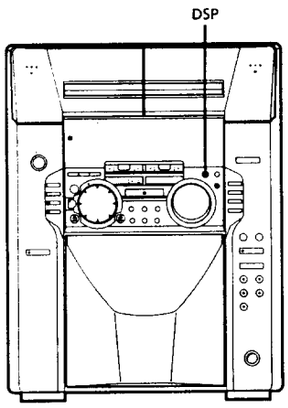
Note

The spectrum analyzer display changes each time you cycle through the information display (i.e., function → clock → effect).

Selecting the surround effect

You can enjoy surround effects.

MHC-MC3AV



➡ Press DSP repeatedly to select the surround effect you want.

SURROUND ON: Reproduces stereo sources in surround sound.

HALL: Reproduces the acoustics of a concert hall.*

THEATER: Reproduces the acoustics of a movie theater.*

ENHANCED THEATER: Reproduces the acoustics of a large movie theater.*

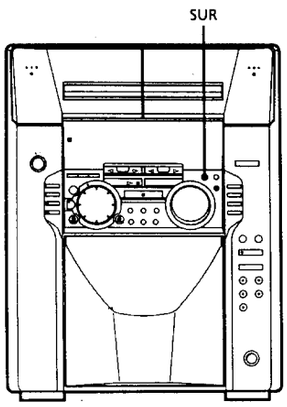
DSP OFF: Turns off the DSP mode.

* The indicator on the front panel's DSP button lights up.

Note

When you select other sound effects, the surround effects will be canceled.

MHC-MC1



➡ Press SUR to turn the surround effect on or off.

Every time you press the button, the display changes as follows:

SURROUND ON (SUR ▮▮▮▮▮▮▮▮)
↓
SURROUND OFF (off)

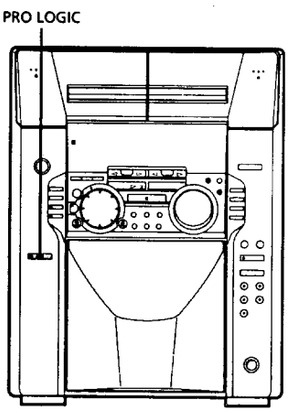
Note

When you select other sound effects, the surround effects will be canceled.

Enjoying Dolby Pro Logic Surround sound

(For MHC-MC3AV only)

You can enjoy Dolby Pro Logic Surround sound from Dolby Surround-encoded (DOLBY SURROUND) video tapes. Complete the setup and adjustments first (see page 7).



➡ Press PRO LOGIC (or PRO LOGIC ON/OFF on the remote) while playing a program source.
The PRO LOGIC indicator lights up.

To cancel the Dolby Pro Logic Surround sound

Press PRO LOGIC (or PRO LOGIC ON/OFF on the remote) again to turn off the PRO LOGIC indicator.

Notes

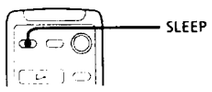
- You can't use both Dolby Pro Logic Surround sound and the DSP surround effects at the same time.
- When recording the sound, be sure to turn off Dolby Pro Logic Surround sound.

Falling asleep to music

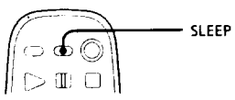
— Sleep Timer

You can let the system turn off at the preset time, so you can sleep to the music. You can preset the time to be turned off by 10 minutes.

For MHC-MC3AV



For MHC-MC1



➡ Press SLEEP.

Every time you press the button, the minute display (the turn-off time) changes as follows:

AUTO → 90min → 80min → 70min → ··· → 10min → OFF → AUTO ···

When you select "AUTO"

The power turns off when the current CD or tape finishes playback (for up to 100 minutes).

To check the remaining time

Press SLEEP once.

To change the time to turn off

Select the time you want by pressing SLEEP.

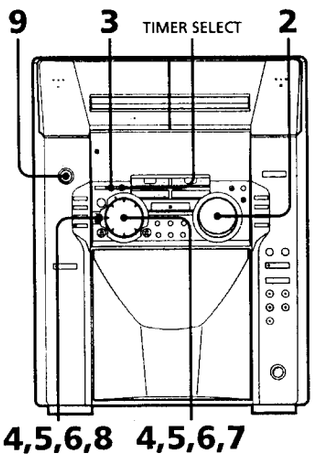
To cancel the Sleep Timer function

Press SLEEP repeatedly until "OFF" appears.

Waking up to music

— Daily Timer

You can wake up to music at a preset time every day. Make sure you have set the clock (see "Step 3: Setting the time").



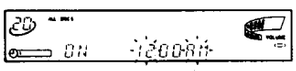
1 Prepare the music source you want to play.

- CD: Insert a CD. To start from a specific track, make a program (see "Programming the CD tracks").
- Tape: Insert a tape with the side you want to play facing forward.
- Radio: Tune in a preset station you want (see "Listening to the radio").

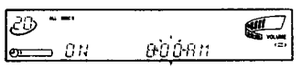
2 Adjust the volume.

3 Press CLOCK TIMER SET.
"SET (DAILY 1)" appears.

4 Turn SELECTOR to select "DAILY 1" or "DAILY 2", then press ENTER.
"ON" appears and the hour indication flashes in the display.



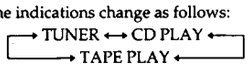
5 Set the time to start playback.
Turn SELECTOR to set the hour, then press ENTER.
The minute indication starts flashing.



Turn SELECTOR to set the minute, then press ENTER.
The hour indication flashes again.

6 Set the time to stop playback following the above procedure.

7 Turn SELECTOR until the music source you want appears.
The indications change as follows:



8 Press ENTER.
The type of timer (DAILY 1 or DAILY 2), the starting time, stopping time, and the music source appear in succession, then the original display appears.

9 Press I/⏻ to turn off the power.

To check the setting

Press TIMER SELECT and turn SELECTOR to select the respective mode (DAILY 1 or DAILY 2), then press ENTER.

To change the setting, start over from step 1.

To cancel the timer operation

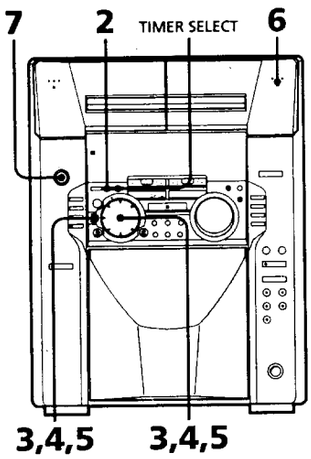
Press TIMER SELECT and turn SELECTOR to select "TIMER OFF", then press ENTER.

Tip

The power turns on 15 seconds before the preset time.

Timer-recording radio programs

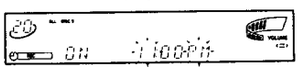
To timer-record, you must preset the radio station (see "Step 4: Presetting radio stations") and set the clock (see "Step 3: Setting the time") beforehand.



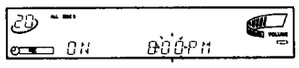
1 Tune in a preset radio station (see "Listening to the radio").

2 Press CLOCK TIMER SET.
"SET (DAILY 1)" appears.

3 Turn SELECTOR to select "REC", then press ENTER.
"ON" appears and the hour indication flashes in the display.



4 Set the time to start recording.
Turn SELECTOR to set the hour, then press ENTER.
The minute indication starts flashing.



Turn SELECTOR to set the minute, then press ENTER.
The hour indication flashes again.

5 Set the time to stop recording following the above procedure.
The starting time, the stopping time, and the preset radio station to be recorded (e.g., "TUNER FM 5") appear in succession, then the original display appears.

6 Insert a recordable tape.

7 Press I/⏻ to turn off the power.
When the recording starts, the volume level is set to the minimum.

To check the setting

Press TIMER SELECT and turn SELECTOR to select "REC", then press ENTER.

To change the setting, start over from step 1.

To cancel the timer operation

Press TIMER SELECT and turn SELECTOR to select "TIMER OFF", then press ENTER.

Note

If the power is on at the preset time, the recording will not be made.

Precautions

On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.

On placement

- Place the stereo system in a location with adequate ventilation to prevent heat build-up in the stereo system.
- Do not place the unit in an inclined position.
- Do not place the unit in locations where it is;
  - — Extremely hot or cold
  - — Dusty or dirty
  - — Very humid
  - — Vibrating
  - — Subject to direct sunlight

On operation

- If the stereo system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player. Should this occur, the system will not operate properly. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.
- When you move the unit, take out any discs.

If you have any questions or problems concerning your stereo system, please consult your nearest Sony dealer.

Notes on CDs

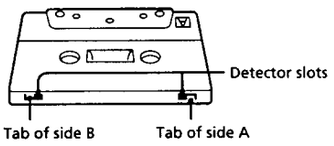
- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

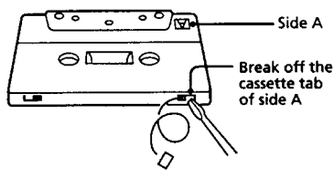
Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

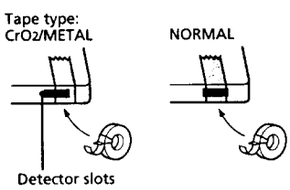
To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated.





If you later want to reuse the tape for recording, cover the broken tab with adhesive tape. However, be careful not to cover the detector slots which allow the tape player to automatically detect the type of tape.



continued

Before placing a cassette in the tape deck

Take up any slack in the tape. Otherwise the tape may get entangled in the parts of the tape deck and become damaged.

When using a tape longer than 90 minutes

The tape is very elastic. Do not change the tape operations such as play, stop, and fast-winding etc. frequently. The tape may get entangled in the tape deck.

Cleaning the tape heads

Clean the tape heads after every 10 hours of use. When the tape heads become dirty;

- the sound is distorted
- there is a decrease in sound level
- the sound drops out
- the tape does not erase completely
- the tape does not record

Make sure to clean the tape heads before you start an important recording or after playing an old tape. Use separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

Demagnetizing the tape heads

Demagnetize the tape heads and the metal parts that have contact with the tape every 20 to 30 hours of use with a separately sold demagnetizing cassette. For details, refer to the instructions of the demagnetizing cassette.

Troubleshooting

If you have any problem using this system, use the following check list.

First, check that the power cord is connected firmly and the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer.

General

The display starts flashing as soon as you connect the power cord even though you haven't turned on the power (demonstration mode).

- Press DISPLAY/DEMO when the power is turned off.

  The demonstration mode appears automatically the first time you connect the power cord. If there is a power outage lasting longer than half a day, redo the following:

  — Clock setting (see "Step 3: Setting the time")

  — Preset stations (see "Step 4: Presetting radio stations")

  — Timer settings (see "Waking up to music" and "Timer-recording radio programs").

There is no sound.

- Turn VOLUME clockwise.
- The headphones are connected.
- Insert only the stripped portion of the speaker cord into the SPEAKER jack. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.

There is severe hum or noise.

- A TV or VCR is placed too close to the unit. Move the unit away from the TV or VCR.

The sound from the connected source is distorted.

- If "VIDEO" appears in the display when you press FUNCTION, switch the display to "MD" (See "Connecting a VCR" on page 14).

"0:00" (or "12:00") flashes in the display.

- A power interruption occurred. Set the clock and timer settings again.

The timer does not function.

- Set the clock correctly.

"DAILY 1", "DAILY 2", and "REC" do not appear when you press the TIMER SELECT button.

- Set the timer correctly.
- Set the clock.

The remote does not function.

- There is an obstacle between the remote and the unit.
- The remote is not pointing in the direction of the system's sensor.
- The batteries have run down. Replace the batteries.

The color irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

Speakers

Sound comes from one channel or the left and right volumes are unbalanced.

- Check the speaker connection and speaker placement.

The sound comes from the center speaker only (MHC-MC3AV only).

- The source being played back is monaural. Press PRO LOGIC to turn off the Dolby Pro Logic mode.

There is no sound from the center speaker (MHC-MC3AV only).

- Set the CENTER LEVEL to the appropriate level.

There is no sound from the rear speakers.

- Connect the left and right surround speakers correctly.
- Press SUR to turn on the surround effect (MHC-MC1 only).
- Set the REAR LEVEL to the appropriate level (MHC-MC3AV only).
- The software being played back has limited sound effects. Check the volume with the test tone (MHC-MC3AV only).

Sound lacks bass.

- Check that the speaker's + and – jacks are connected correctly.

CD Player

The CD will not play.

- Close the front cover.
- Check if the CD is correctly inserted in the slot.
- The CD is dirty.
- The CD is inserted with the label side facing left.
- Moisture condensation has built up. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

Playback does not start from the first track.

- The system is in Program or Shuffle Play. Press CONTINUE.

"–OVER–" is displayed.

- You have reached the end of the CD. Press and hold ◀◀ to return.

continued

Tape Deck

The tape does not record.

- No tape in the cassette holder.
- The tab has been removed from the cassette (see "To save a tape permanently" on page 47).
- The tape has reached its end.

The tape does not record nor play or there is a decrease in sound level.

- The heads are dirty. Clean them (see "Cleaning the tape heads" on page 48).
- The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 48).

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 48).

There is excessive wow or flutter, or the sound drops out.

- The capstans or pinch rollers are dirty. Clean them (see "Cleaning the tape heads" on page 48).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized. Demagnetize them (see "Demagnetizing the tape heads" on page 48).

After pressing ▷ (◁) or ⏏, there is a mechanical noise, "EJECT" appears in the display, and the system enters standby mode automatically.

- The tape was not inserted correctly. Eject the tape and turn the power back on.

Tuner

There is severe hum or noise ("TUNED" or "STEREO" flashes in the display).

- Adjust the antenna.
- The signal strength is too weak. Connect the external antenna.

A stereo FM program cannot be received in stereo.

- Press STEREO/MONO so that "STEREO" appears.

If other troubles not described above occur, reset the system as follows:

1 Unplug the power cord.
2 Plug the power cord back in.
3 Press ■, ENTER, and FUNCTION at the same time.
4 Press I/⏻ to turn on the power.

The system is reset to the factory settings. All the settings you made, such as preset stations, clock, timer, and Disc Memo are cleared. Be sure to restore all necessary settings.

Specifications

Amplifier section

U.S.A. models:

MHC-MC3AV

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 8 ohm loads both channels driven, from 70-20,000 Hz; rated 80 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to read output.

MHC-MC1

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 8 ohm loads both channels driven, from 70-20,000 Hz; rated 80 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to read output.

North American model:
MHC-MC3AV:
Front Speaker:
Continuous RMS power output
80 + 80 watts
(8 ohms at 1 kHz, 10% THD)
Total harmonic distortion
less than 0.09%
(8 ohms at 1 kHz, 40 W)
Center Speaker:
Continuous RMS power output
20 watts
(8 ohms at 1 kHz, 1% THD)
Rear Speaker:
Continuous RMS power output
10 + 10 watts
(16 ohms at 1 kHz, 1% THD)
MHC-MC1:
Continuous RMS power output
80 + 80 watts
(8 ohms at 1 kHz, 10% THD)
Total harmonic distortion
less than 0.09%
(8 ohms at 1 kHz, 40 W)

Australian model:
The following measured at AC 240 V, 60 Hz;
Front Speaker:
DIN power output (Rated)
70 + 70 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
80 + 80 watts
(8 ohms at 1 kHz, 10% THD)
Center Speaker:
DIN power output (Rated)
17.5 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
20 watts
(8 ohms at 1 kHz, 10% THD)
Rear Speaker:
DIN power output (Rated)
8 + 8 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
10 + 10 watts
(8 ohms at 1 kHz, 10% THD)

The following measured at AC 220 V, 60 Hz;
Front Speaker:
DIN power output (Rated)
60 + 60 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
70 + 70 watts
(8 ohms at 1 kHz, 10% THD)
Center Speaker:
DIN power output (Rated)
15 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
17.5 watts
(8 ohms at 1 kHz, 10% THD)
Rear Speaker:
DIN power output (Rated)
7 + 7 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
8.5 + 8.5 watts
(8 ohms at 1 kHz, 10% THD)

continued

Specifications (continued)

Inputs
VIDEO/MD IN (phono jacks):
voltage 250 mV/450 mV, impedance 47 kilohms

Outputs
VIDEO/MD OUT (phono jacks):
voltage 250 mV, impedance 1 kilohms
PHONES (stereo phone jack):
accepts headphones of 8 ohms or more

SPEAKER:
MHC-MC3AV: accepts impedance of 8 to 16 ohms
MHC-MC1: accepts impedance of 8 to 16 ohms

REAR SPEAKER:
MHC-MC3AV: accepts impedance of 16 ohms
MHC-MC1: accepts impedance of 16 ohms

CENTER SPEAKER (MHC-MC3AV only):
accepts impedance of 8 ohms
SUPER WOOFER: Voltage 1 V, impedance 1 kilohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ=780nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Wavelength	780 – 790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)

Wavelength	600 nm
Output Level	–18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette
Wow and flutter	±0.15% W.Peak (IEC) 0.1% W.RMS (NAB) ±0.2% W.Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,710 kHz (with the interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

Speaker

Front Speaker
SS-MC3V for MHC-MC3AV:

Speaker system	3-way, bass-reflex type magnetically shielded type
Speaker units	
Woofer:	17 cm (6 3/4 in), cone type
Tweeter:	5 cm (2 in), cone type
Super Tweeter:	2 cm (3/4 in), dome type
Nominal impedance	8 ohms
Dimensions (w/h/d)	Approx. 215 × 373 × 294 mm (8 1/2 × 14 3/4 × 11 5/8 in)
Mass	Approx. 4.5 kg (9 lb 15 oz) net per speaker

SS-MC1 for MHC-MC1

Speaker system	3-way, bass-reflex type
Speaker units	
Woofer:	17 cm (6 3/4 in), cone type
Tweeter:	5 cm (2 in), cone type
Super Tweeter:	2 cm (3/4 in), dome type
Nominal impedance	8 ohms
Dimensions (w/h/d)	Approx. 215 × 373 × 267 mm (8 1/2 × 14 3/4 × 10 5/8 in)
Mass	Approx. 4.0 kg (8 lb 13 oz) net per speaker

Rear Speaker (MHC-MC3AV only)
SS-SR50:

Speaker system	1-way, 1-unit, bass-reflex type
Speaker units	
Full-range:	8 cm (3 1/4 in), cone type
Nominal impedance	16 ohms
Dimensions (w/h/d)	Approx. 215 × 100 × 210 mm (8 1/2 × 4 × 8 3/8 in)
Mass	Approx. 1.1 kg (2 lb 7 oz) net per speaker

Center Speaker (MHC-MC3AV only)
SS-CN50:

Speaker system	1-way, 1-unit, bass-reflex type magnetically shielded
Speaker units	
Full-range:	8 cm (3 1/4 in), cone type
Nominal impedance	8 ohms
Dimensions (w/h/d)	Approx. 275 × 105 × 200 mm (10 7/8 × 4 1/4 × 7 7/8 in)
Mass	Approx. 1.5 kg (3 lb 5 oz) net

For customers in Canada
(For MHC-MC3AV)

Use only the supplied SS-SR50 rear surround speaker for connection to the REAR SPEAKER connector, the supplied SS-CN50 center surround speaker for connection to the CENTER SPEAKER connector on the MHC-MC3AV.

continued

General

Power requirements	
North American model:	120 V AC, 60 Hz
Australian model:	220 - 240 V AC, 50/60 Hz
Power consumption	
MHC-MC3AV:	
U.S.A. model:	250 watts
Canadian model:	250 VA
Australian model:	250 watts
MHC-MC1:	200 watts
Dimensions (w/h/d)	Approx. 280 × 373 × 437 mm (11 $^{1}/_{8}$ × 14 $^{1}/_{4}$ × 17 $^{1}/_{4}$ in)
Mass	
MHC-MC3AV:	Approx. 12 kg (26 lb 7 oz)
MHC-MC1:	Approx. 11.2 kg (24 lb 11 oz)
Supplied accessories:	AM loop antenna (1) Remote commander (1) Batteries (2) FM lead antenna (1) Speaker cords: (5) for MHC-MC3AV (2) for MHC-MC1 Front speaker pads (8) Center speaker pads (for MHC-MC3AV only) (4)
Optional accessory:	
Rear speaker (MHC-MC1 only)	
SS-SR101:	
Speaker system	1-way, 1-unit, bass-reflex type
Speaker unit	10 cm (4 in), cone type
Nominal impedance	16 ohms
Dimensions (w/h/d)	Approx. 206 × 95 × 240 mm (8 $^{1}/_{8}$ × 3 $^{3}/_{4}$ × 9 $^{1}/_{2}$ in)
Mass	Approx. 1.1 kg (2 lb 7 oz) net per speaker

For customers in Canada

(For MHC-MC1)

Use only the optional SS-SR101 rear surround speaker for connection to the REAR SPEAKER connector on the MHC-MC1.

Design and specifications are subject to change without notice.

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